6DZ4

Medium-Mu Triode

7-PIN MINIATURE TYPE

For UHF-Oscillator Service in TV Receivers

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.225	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode	50 max.	volts
Heater positive with respect to cathode	50[a] max.	volts

Direct Interelectrode Capacitances (Approx):[b]

Grid to plate	1.8	pf
Grid to cathode and heater	2.2	pf
Plate to cathode and heater	1.3	pf

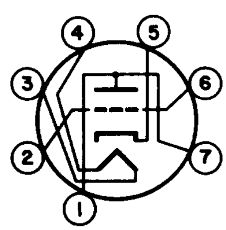
Characteristics, Class A_1 Amplifier:

Plate Supply Voltage	80	volts
Plate Resistor	2700	ohms
Amplification Factor	14	
Plate Resistance (Approx)	2000	ohms
Transconductance	6700	μmhos
Plate Current	15	ma
Grid Voltage (Approx) for plate μa = 20	−11	volts

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See *General Section*
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7DK

Pin 1 – Plate
Pin 2 – Grid
Pin 3 – Heater
Pin 4 – Heater



Pin 5 – Cathode
Pin 6 – Grid
Pin 7 – Plate

6DZ4

UHF OSCILLATOR

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE	135	max.	volts
GRID VOLTAGE:			
Negative-bias value	50	max.	volts
GRID CURRENT	2	max.	ma
CATHODE CURRENT	20	max.	ma
PLATE DISSIPATION	2.3	max.	watts

Typical Operation:[c]

At frequency of 1000 Mc

Plate Supply Voltage	135	volts
Plate-Circuit Resistance	2700	ohms
Grid Resistor	10000	ohms
Plate Current	15.5	ma
Grid Current (Approx)	800	μa

Maximum Circuit Values:

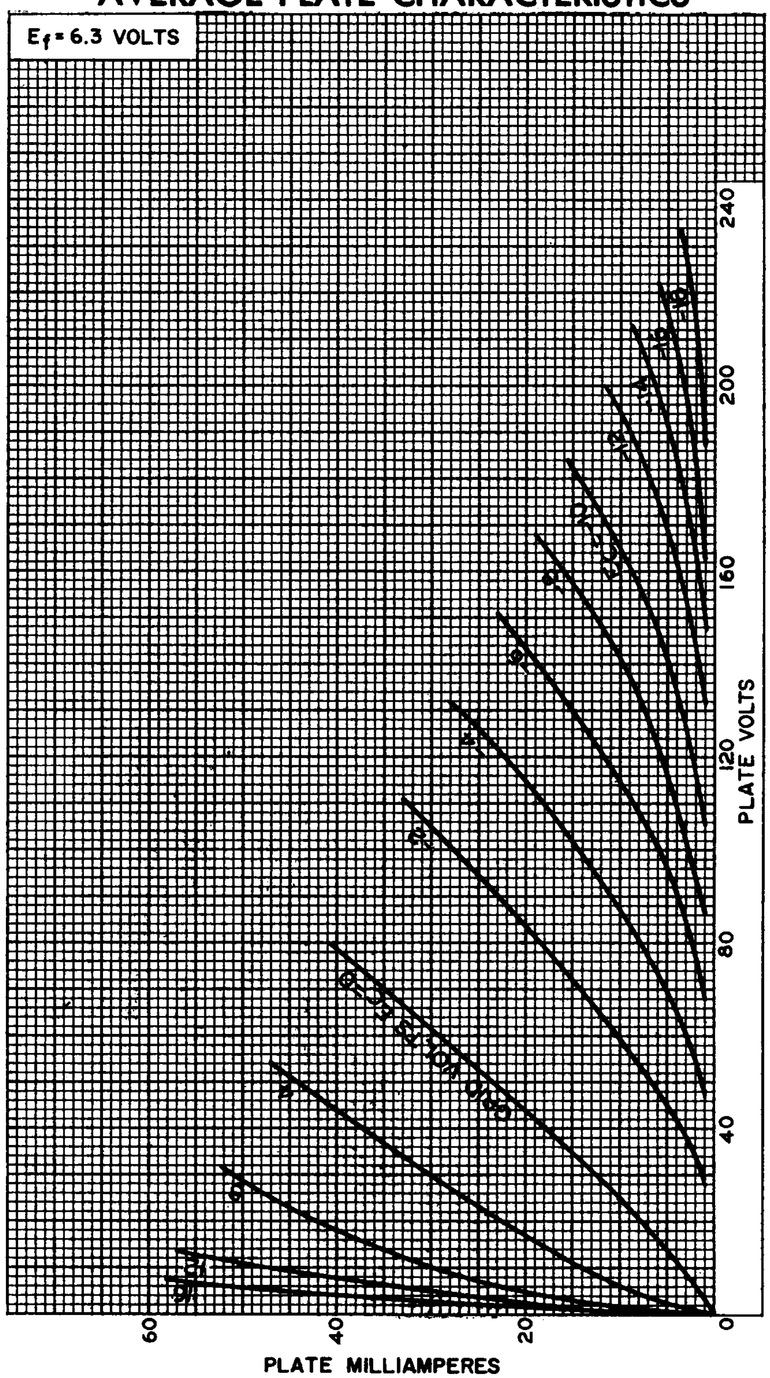
Grid-Circuit Resistance:	
For fixed-bias operation	Not recommended
For cathode-bias operation	0.5 max. megohm

[a] The dc component must not exceed 25 volts.

[b] With external shield JEDEC No.316 connected to cathode.

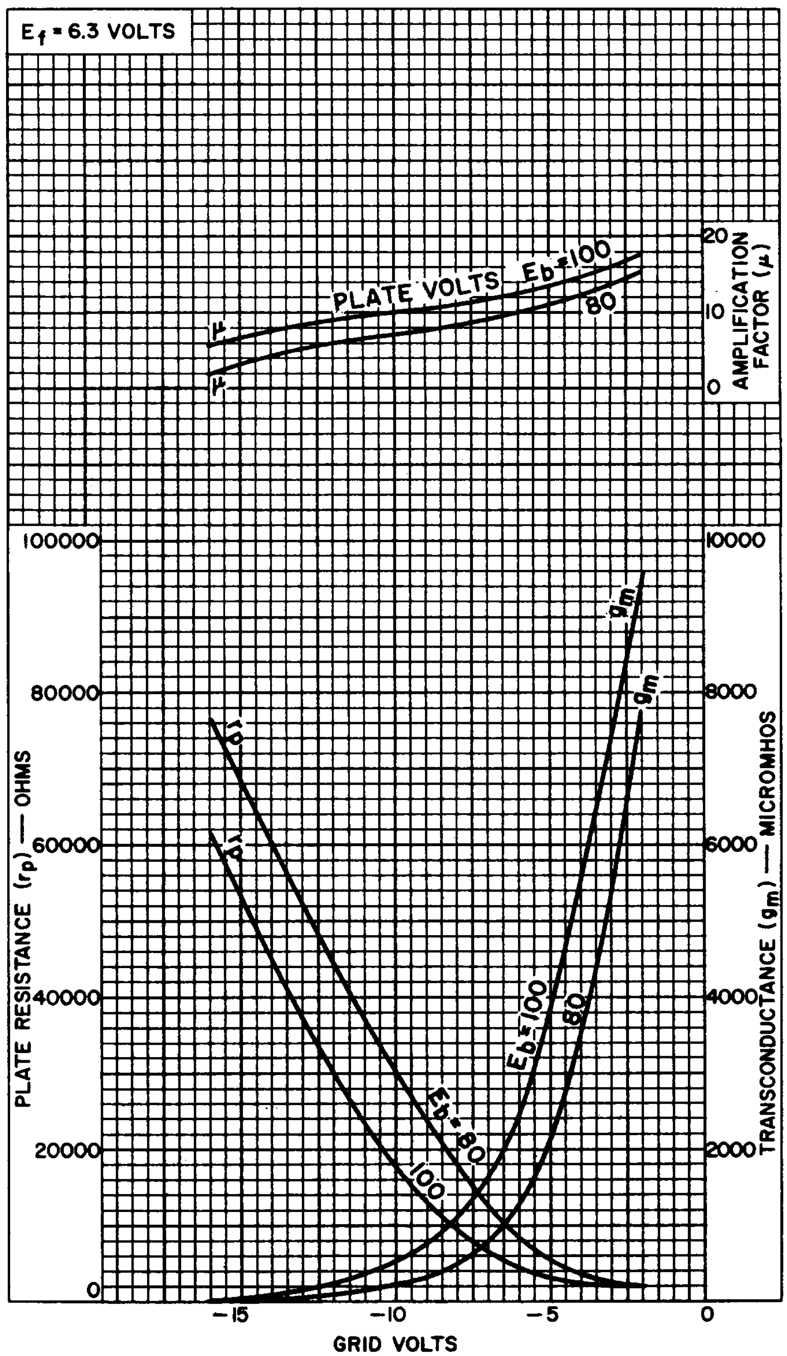
[c] Measured in JEDEC STANDARD OSCILLATION TEST SET No.400 with external, added resistance in plate circuit.

AVERAGE PLATE CHARACTERISTICS



92CM—7756

AVERAGE CHARACTERISTICS



92CM — 7758RI